



Gulf of Mexico Harmful Algal Bloom Bulletin

8 February 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: February 5, 2007

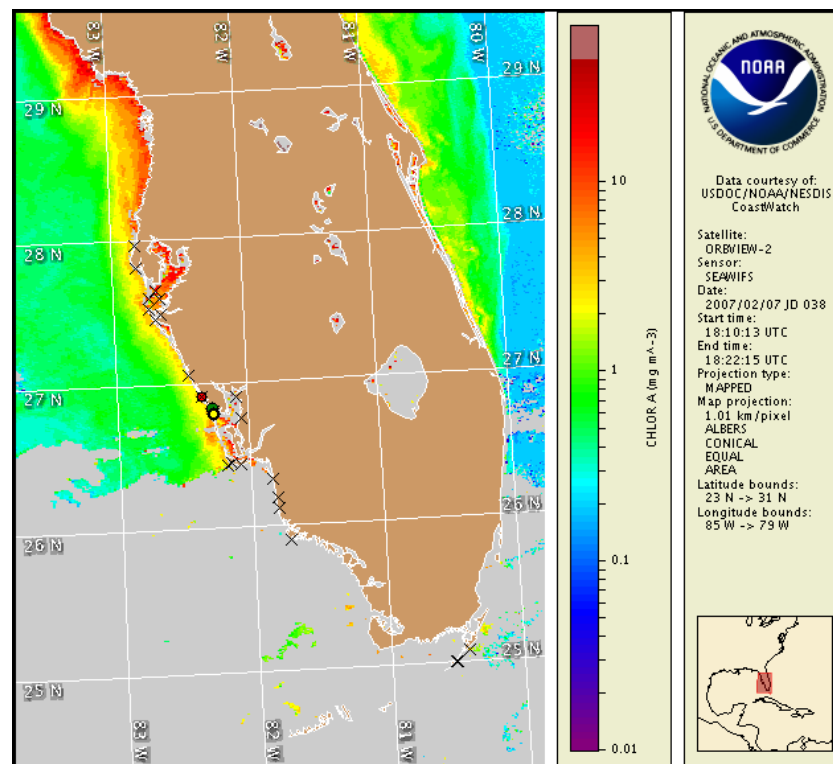
Conditions Report

A harmful algal bloom has been identified in patches from southern Sarasota to Collier Counties. Very low impacts are possible in southern Sarasota and Charlotte Counties today through Sunday, with possible low impacts Friday afternoon. No other impacts are expected within the bloom region.

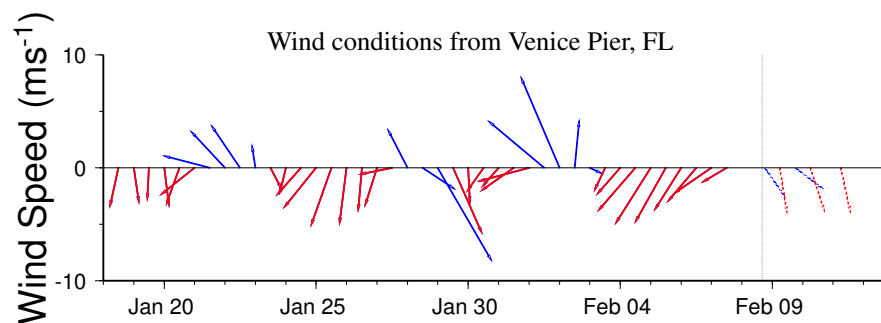
Analysis

A harmful algal bloom persists alongshore from southern Sarasota to central Collier Counties. Most recent samples from southwest Florida contained no *K. brevis*. Recent sampling detected a *K. brevis* concentration of "very low a" at Gasparilla Fishing Pier (2/6, ChCPRCR). Recent imagery has been mostly obscured by clouds. Imagery from 2/07 shows elevated chlorophyll levels at several locations: about 9 $\mu\text{g/L}$ west of Pasco County around 28°23'N, 82°45'W; about 5 $\mu\text{g/L}$ west of Captiva Island 26°38'N, 82°19'W. Sampling is recommended. Upwelling-favorable winds may intensify the bloom through Sunday. A wind transport model indicates 18 km of northward alongshore transport in the bloom region over the last five days. Weak southward transport of the bloom is possible through Sunday.

Bronder, Keller



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from January 29-February 7 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habf_bulletin_guide.pdf

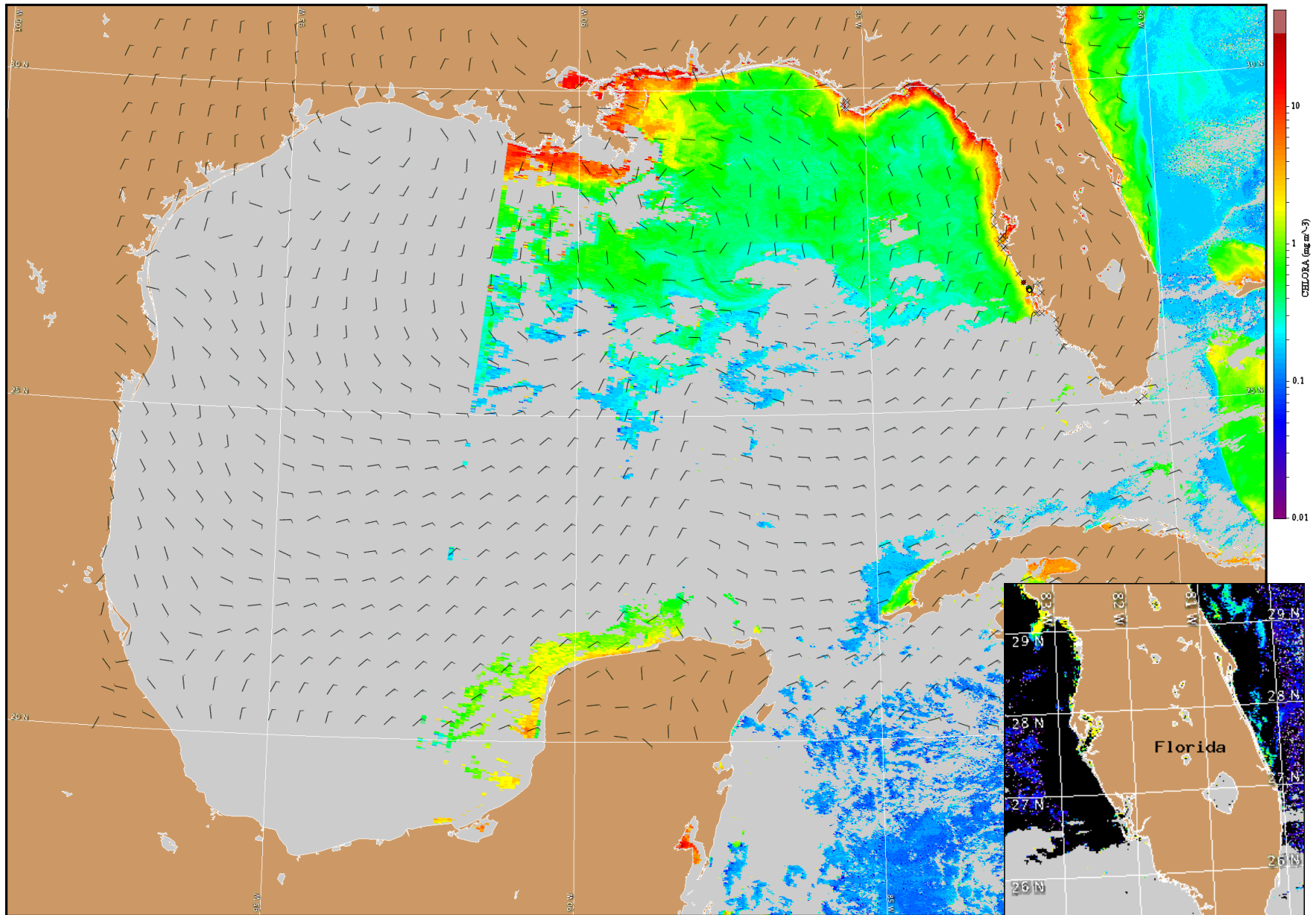


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Winds will be north (10 kts, 5 m/s) today, northeast (10 kts, 5 m/s) tomorrow becoming northwest (5 kts, 3 m/s) in the afternoon, north (10 kts, 5 m/s) Saturday, northeast (10 kts, 5 m/s) Sunday.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for February 9, 2007 12Z with cell concentration sampling data from January 29-February 7 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).